



LL           IIIIII   BBBBBBBB   GGGGGGGG   EEEEEEEEE   TTTTTTTTT   IIIIII   NN   NN   PPPPPPPPP  
LL           IIIIII   BBBBBBBB   GGGGGGGG   EEEEEEEEE   TTTTTTTTT   IIIIII   NN   NN   PPPPPPPPP  
LL           IIII    BB    GG    EE    EE    TT    II    NN    NN    PP    PP  
LL           IIII    BB    GG    EE    EE    TT    II    NN    NN    PP    PP  
LL           IIII    BB    GG    EE    EE    TT    II    NNNN   NN    PP    PP  
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LLLLLLLLLL    IIIIII   BBBBBBBB   GGGGGG   EEEEEEEEE   TT    IIIIII   NN    NN    PP  
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LL           IIIIII   SSSSSSSS  
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LL           IIII    SS    SS  
LL           IIIIII   SSSSSSSS  
LL           IIIIII   SSSSSSSS

```
: 1      0001 0 MODULE LIB$GET_INPUT (           ! Library $GET on device SY$INPUT
: 2      0002 0                               IDENT = '1-015'          ! File: LIBGETINP.B32 Edit: STAN1015
: 3      0003 0
: 4      0004 0
: 5      0005 0
: 6      0006 1 BEGIN
: 7      0007 1
: 8      0008 1 ****
: 9      0009 1 *
:10     0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
:11     0011 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
:12     0012 1 * ALL RIGHTS RESERVED.
:13     0013 1 *
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:26     0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
:27     0027 1 *
:28     0028 1 *
:29     0029 1 ****
:30     0030 1
:31     0031 1
:32     0032 1 ++
:33     0033 1   FACILITY: General Utility Library
:34     0034 1
:35     0035 1   ABSTRACT:
:36     0036 1
:37     0037 1     Output a string as a record on device SY$INPUT.
:38     0038 1
:39     0039 1   ENVIRONMENT: User Mode - AST re-entrant
:40     0040 1
:41     0041 1   AUTHOR: Thomas N. Hastings, CREATION DATE: 8-Aug-1977
:42     0042 1
:43     0043 1   MODIFIED BY:
:44     0044 1
:45     0045 1     Thomas N. Hastings, 8-Aug-1977: VERSION 0
:46     0046 1     01 - original
:47     0047 1     04 - change to SY$INPUT
:48     0048 1     05 - change to do OPEN at first time
:49     0049 1     06 - change to set up RAB for GET_STRING
:50     0050 1     0-7 - fix comment
:51     0051 1     0-10 - Change to STARLET library. DGP 20-Apr-78
:52     0052 1     0-11 - Remove EXTERNAL RMSS_RTB. TNH 24-Apr-78
:53     0053 1     0-12 - Change REQUIRE files for VAX system build. DGP 28-Apr-78
:54     0054 1     0-13 - Change STARLET to RTLSTARLE to avoid conflicts. DGP 1-May-78
:55     0055 1     0-14 - Add LIB$GET_COMMAND entry point. TNH 17-June-78
:56     0056 1     For now, just copy entire routine.
:57     0057 1     0-15 - Make wait if record stream active so AST re-entrant.
```

: 58        0058 1 | Also allocate dynamic string if passed. TNH 29-July-78  
59        0059 1 | 0-18 - Make common routine. TNH 29-July-78  
60        0060 1 | 0-19 - Use LIB\$COPY\_R\_DX, not DD. TNH 2-Aug-78  
61        0061 1 | 0-20 - Change file name to LIBGETINP.B32, and change the name of  
62        0062 1 |      the REQUIRE file similarly. JBS 14-NOV-78  
63        0063 1 | 1-001 - Update version number and copyright notice. JBS 16-NOV-78  
64        0064 1 | 1-002 - Declare NULLPARAMETER for new BLISS compiler. JBS 22-NOV-78  
65        0065 1 | 1-003 - Change REQUIRE file names from FOR... to OTS... JBS 07-DEC-78  
66        0066 1 | 1-003 - Put in extra RETURN to avoid INFO message about a null  
67        0067 1 |      expression in a value-required context. JBS 22-NOV-78  
68        0068 1 | 1-004 - Change LIB\$ to STR\$. JBS 23-MAY-1979  
69        0069 1 | 1-005 - Change call to STR\$COPY. JBS 16-JUL-1979  
70        0070 1 | 1-006 - Optionally return the number of characters in the record, so  
71        0071 1 |      callers with fixed strings can ignore trailing blanks.  
72        0072 1 |      JBS 06-SEP-1979  
73        0073 1 | 1-007 - Revise edit 006 to not return more than the number of bytes  
74        0074 1 |      requested, and return as a word. This is similar to system  
75        0075 1 |      services. JBS 18-SEP-1979  
76        0076 1 | 1-008 - Use LIB\$COPY\_R\_DX to copy string since STR\$COPY\_R signals  
77        0077 1 |      errors.  
78        0078 1 |      Do string copy even if \$GET fails because the string may have  
79        0079 1 |      been returned. When waiting for record stream to become  
80        0080 1 |      inactive, do \$GET's, not \$PUT's! SBL 22-Jan-1980  
81        0081 1 | 1-009 - Enhance to recognize additional classes of string descriptors  
82        0082 1 |      by invoking LIB\$ANALYZE\_SDESC\_R3 to extract length and address  
83        0083 1 |      of 1st data byte from descriptor. RKR 27-MAY-1981.  
84        0084 1 | 1-010 - Correct bugs caused by fact that LIB\$ANALYZE\_SDESC\_R3 returns  
85        0085 1 |      a word length rather than a byte or longword. SBL 4-Sep-1981  
86        0086 1 | 1-011 - Correct comment regarding statuses returned.  
87        0087 1 |      Add special-case code for string descriptors that "read" like  
88        0088 1 |      fixed string descriptors to avoid calls to  
89        0089 1 |      LIB\$ANALYZE\_SDESC\_R5. RKR 7-OCT-1981  
90        0090 1 | 1-012 - Redirect jsb's from LIB\$ANALYZE\_SDESC\_R3 to  
91        0091 1 |      LIB\$ANALYZE\_SDESC\_R2. Use LIB\$COPY\_R\_DX6 to do copying.  
92        0092 1 |      RKR 18-NOV-1981.  
93        0093 1 | 1-013 - Add support for class S0 string descriptors. DG 3-Oct-1983.  
94        0094 1 | 1-014 - Change class S0 string descriptors to SB. DG 27-Feb-1984  
95        0095 1 | 1-015 - If called with a dynamic string descriptor already containing  
96        0096 1 |      more than 256 bytes of buffer, use that buffer. STAN 8-Jul-1984.  
97        0097 1 | --  
98        0098 1 | <BLF/PAGE>

```
: 100      0099 1 | SWITCHES
: 101      0100 1 |   :
: 102      0101 1 |   :
: 103      0102 1 |   :
: 104      0103 1 | SWITCHES ADDRESSING MODE
: 105      0104 1 |   (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
: 106      0105 1 |   :
: 107      0106 1 |   :
: 108      0107 1 | LINKAGES
: 109      0108 1 |   :
: 110      0109 1 |     REQUIRE 'RTLIN:STRLNK'; ! linkage for LIB$ANALYZE_SDESC_R2
: 111      0294 1 |   :
: 112      0295 1 |   :
: 113      0296 1 | TABLE OF CONTENTS:
: 114      0297 1 |   :
: 115      0298 1 |   :
: 116      0299 1 | FORWARD ROUTINE
: 117      0300 1 |   LIB$GET_INPUT,
: 118      0301 1 |   LIB$GET_COMMAND,
: 119      0302 1 |   DO_GET;
: 120      0303 1 |   ! Get string from device SYSSINPUT
: 121      0304 1 |   ! Get string from device SYSSCOMMAND
: 122      0305 1 |   ! Common rout. to do main part of above.
: 123      0306 1 |   :
: 124      0307 1 | INCLUDE FILES:
: 125      0308 1 |   :
: 126      0403 1 |     REQUIRE 'RTLIN:RTLPSECT'; ! Define DECLARE_PSECTS macro
: 127      0404 1 |     LIBRARY 'RTLSTARLE';
: 128      0405 1 |     ! STARLET library for macros and symbols
: 129      0406 1 |   :
: 130      0407 1 | MACROS:
: 131      0408 1 |   :
: 132      0409 1 |   :
: 133      0410 1 | EQUATED SYMBOLS:
: 134      0411 1 |   :
: 135      0412 1 | LITERAL
: 136      0413 1 |   :
: 137      0414 1 |     K_DYN_STR_MAX = 256; ! Max. size of dynamic string which can
: 138      0415 1 |     be handled before truncation
: 139      0416 1 |   :
: 140      0417 1 | PSECT DECLARATIONS:
: 141      0418 1 |   :
: 142      0419 1 |     DECLARE_PSECTS (LIB); ! declare PSECTS for LIB$ facility
: 143      0420 1 |   :
: 144      0421 1 | OWN STORAGE:
: 145      0422 1 |   :
: 146      0423 1 |   :
: 147      0424 1 |   :
: 148      0425 1 | OWN
: 149      0426 1 |     SYS_INPUT_ISI : WORD INITIAL (0) ; ! ISI for SYSSINPUT
: 150      0427 1 |     SYS_COMMAND_ISI : WORD INITIAL (0); ! ISI for SYSSCOMMAND
: 151      0428 1 |   :
: 152      0429 1 |   :
: 153      0430 1 | EXTERNAL REFERENCES:
: 154      0431 1 |   :
: 155      0432 1 |   :
: 156      0433 1 | EXTERNAL ROUTINE
```

```
: 157      0434 1 LIB$ANALYZE_SDESC_R2 : LIB$ANALYZE_SDESC_JSB_LINK, ! Extract length
.: 158      0435 1 and address of
.: 159      0436 1 1st data byte
.: 160      0437 1 from descriptor
.: 161      0438 1 LIB$SCOPY_R_DX6 : STRING_JSB ;      ! Copy to any class string
.: 162      0439 1
.: 163      0440 1 EXTERNAL
.: 164      0441 1 LIBS_FATERRLIB,          ! LIB -- FATAL ERROR IN LIBRARY
.: 165      0442 1 LIBS_INPSTRTRU:        ! LIB -- INPUT STRING TRUNCATED
.: 166      0443 1
```

```
168      0444 1 GLOBAL ROUTINE LIB$GET_INPUT (           ! Input string from SYSSINPUT
169      0445 1
170      0446 1   GET_STRING,
171      0447 1   PROMPT_STRING,          ! Addr. of string descriptor
172      0448 1           ! Addr. of optional PROMPT_STRING string
173      0449 1   OUTLEN            ! descriptor
174      0450 1           ! Optional number of bytes returned
175      0451 1
176      0452 1           ) = ! Value returned is RMS completion code
177      0453 1
178      0454 1 ++ FUNCTIONAL DESCRIPTION:
179      0455 1
180      0456 1   A line from the current controlling input device, SYSSINPUT, is
181      0457 1   obtained. If an optional PROMPT_STRING is given, output will
182      0458 1   appear on the device, SYSSINPUT, if the device is a terminal;
183      0459 1   otherwise the PROMPT STRING is ignored. No CRLF is
184      0460 1   appended to the record obtained from RMS. On first call,
185      0461 1   device SYSSINPUT is opened.
186      0462 1   Thus the user can assign the logical name SYSSINPUT to any file
187      0463 1   name in order to redirect I/O.
188      0464 1
189      0465 1 CALLING SEQUENCE:
190      0466 1
191      0467 1   RET_STATUS.wlc.v = LIB$GET_INPUT (get_string.wt.dx
192      0468 1           [,prompt_string.rt.dx
193      0469 1           [,outlen.ww.r])
194      0470 1
195      0471 1 INPUT PARAMETERS:
196      0472 1
197      0473 1   prompt_string is the address of a string descriptor specifying
198      0474 1   an optional prompt which is output to the
199      0475 1   controlling input device. Where other conventions
200      0476 1   are not established, it is recommended for
201      0477 1   consistency to make prompts be an English word
202      0478 1   followed by a colon(:), one (1) space, and no
203      0479 1   CRLF.
204      0480 1
205      0481 1 OUTPUT PARAMETERS:
206      0482 1
207      0483 1   get_string is the address of string descriptor of any type
208      0484 1   of descriptor supported by LIB$ANALYZE_SDESC.
209      0485 1
210      0486 1   outlen Is the number of characters placed in the string.
211      0487 1
212      0488 1 IMPLICIT INPUTS:
213      0489 1
214      0490 1   SYS_INPUT_ISI Set on first call to RMS internal stream
215      0491 1   identifier.
216      0492 1
217      0493 1 IMPLICIT OUTPUTS:
218      0494 1
219      0495 1   SYS_INPUT_ISI Set to RMS internal stream identifier
220      0496 1   on first call when SYSSINPUT is OPENed.
221      0497 1
222      0498 1
223      0499 1 COMPLETION STATUS:
224      0500 1
```

```

: 225      0501 1 | SSS_NORMAL if success.
: 226      0502 1 |
: 227      0503 1 |
: 228      0504 1 | LIBS_INPSTRTRU if input string is bigger than the caller's
: 229      0505 1 | fixed length string.
: 230      0506 1 | LIBS_INVSTRDES if the input descriptor's class is not a
: 231      0507 1 | recognized string class.
: 232      0508 1 | RMSS_xyz if any RMS error.
: 233      0509 1 |
: 234      0510 1 | SIDE EFFECTS:
: 235      0511 1 | Opens file SYSSINPUT on first call and remembers ISI for
: 236      0512 1 | subsequent calls.
: 237      0513 1 | --
: 238      0514 1 | BEGIN
: 239      0515 2 |
: 240      0516 2 |
: 241      0517 2 | BUILTIN
: 242      0518 2 | NULLPARAMETER;
: 243      0519 2 |
: 244      0520 2 | RETURN DO GET (.GET_STRING, ! String to return
: 245      0521 2 | (IF NULLPARAMETER (2) THEN 0 ELSE .PROMPT_STRING), ! Optional
: 246      0522 2 | prompt
: 247      0523 2 | (IF NULLPARAMETER (3) THEN 0 ELSE .OUTLEN), ! Optional
: 248      0524 2 | number of
: 249      0525 2 | bytes returned
: 250      0526 2 | SYS_INPUT_ISI, ! internal stream id for SYSSINPUT
: 251      0527 2 | 9, ! length of SYSSINPUT string
: 252      0528 2 | UPLIT ('SYSSINPUT')); ! name to open first time
: 253      0529 2 |
: 254      0530 1 | END; ! End of LIB$GET_INPUT routine

```

```

:TITLE LIB$GET_INPUT
:IDENT \1-015\
:PSECT _LIB$DATA,NOEXE, PIC,2
0000 00000 SYS_INPUT ISI: .WORD 0
0000 00002 SYS_COMMAND ISI: .WORD 0
:PSECT _LIB$CODE,NOWRT, SHR, PIC,2
00 00 00 54 55 50 4E 49 24 53 59 53 00000 P.AAA: .ASCII \SYSSINPUT\<0><0><0>
:EXTRN LIB$ANALYZE_SDESC_R2
:EXTRN LIB$COPY R-DX6
:EXTRN LIB$FATERR[IB, LIB$_INPSTRTRU
EF AF 0000 00000 .ENTRY LIB$GET_INPUT, Save nothing
09 DD 00002 PUSHAB P.AAA
03 00000000' EF 9F 00005 PUSHBL #9
          6C 91 0000D PUSHAB SYS_INPUT_ISI
          05 1F 00010 CMPB (AP), #3
          OC AC D5 00012 BLSSU 1$
                           TSTL 12(AP)
: 0444
: 0528
: 0520
: 0523
:
```

	04	12	00015	BNEQ	2\$	
	7E	D4	00017	1\$:	CLRL	-(SP)
	03	11	00019	BRB	3\$	
02	0C	DD	0001B	PUSHL	OUTLEN	
	6C	91	0001E	CMPB	(AP), #2	
	05	1F	00021	BLSSU	4\$	
	08	AC	00023	TSTL	8(AP)	
	04	12	00026	BNEQ	5\$	
	7E	D4	00028	CLRL	-(SP)	
	03	11	0002A	BRB	6\$	
	08	AC	0002C	PUSHL	PROMPT_STRING	
	04	AC	0002F	PUSHL	GET_STRING	
0000V CF	06	FB	00032	CALLS	#6, DO_GET	
	04	00037		RET		

: Routine Size: 56 bytes. Routine Base: \_LIB\$CODE + 000C

```
256      0531 1 GLOBAL ROUTINE LIB$GET_COMMAND (           ! Input string from SYSS$COMMAND
257      0532 1
258      0533 1     GET_STRING,                      ! Addr. of string descriptor
259      0534 1     PROMPT_STRING,                 ! Addr of optional PROMPT_STRING
260      0535 1
261      0536 1     OUTLEN                      ! descriptor
262      0537 1                           ! Number of chars returned
263      0538 1
264      0539 1                           ) = ! Value returned is RMS completion
265      0540 1                           ! code
266      0541 1
267      0542 1     ++
268      0543 1     FUNCTIONAL DESCRIPTION:
269      0544 1     A line from the current controlling input device, SYSS$COMMAND,
270      0545 1     is obtained. If an optional PROMPT STRING is given, output
271      0546 1     will appear on the device, SYSS$COMMAND, if the device is a
272      0547 1     terminal; otherwise the PROMPT_STRING is ignored. No CRLF is
273      0548 1     appended to the record obtained from RMS. On first call,
274      0549 1     device SYSS$COMMAND is opened.
275      0550 1     Thus the user can assign the logical name SYSS$COMMAND to any
276      0551 1     file name in order to redirect I/O. Note: Generally
277      0552 1     LIB$GET_ININPUT should be used rather than LIB$GET_COMMAND.
278      0553 1     LIB$GET_COMMAND should only be used when the user has indicated
279      0554 1     that the terminal is explicitly wanted when in an indirect file.
280      0555 1     For example, $INQUIRE or /CONFIRM qualifier.
281      0556 1     Normally, SYSS$INPUT and SYSS$COMMAND are the same file
282      0557 1     (interactive and batch). It is only when an interactive user
283      0558 1     uses an indirect file that the devices are different
284      0559 1     (SYSS$INPUT = indirect file, SYSS$COMMAND remaining associated
285      0560 1     with the terminal).
286      0561 1
287      0562 1     CALLING SEQUENCE:
288      0563 1
289      0564 1     RET_STATUS.wlc.v = LIB$GET_COMMAND (get_string.wt.dx
290      0565 1                           [,prompt_string.rt.dx
291      0566 1                           [,outlen.ww.r])
292      0567 1
293      0568 1     INPUT PARAMETERS:
294      0569 1
295      0570 1     prompt_string is the address of a string descriptor specifying
296      0571 1     an optional prompt which is output to the
297      0572 1     controlling input device. Where other conventions
298      0573 1     are not established, it is recommended for
299      0574 1     consistency to make prompts be an English word
300      0575 1     followed by a colon(:), one (1) space, and no
301      0576 1     CRLF.
302      0577 1
303      0578 1     OUTPUT PARAMETERS:
304      0579 1
305      0580 1     get_string is the address of string descriptor of any type
306      0581 1     (unspecified, static, dynamic, or varying as
307      0582 1     specified by the DSC$B(CLASS field) which is to
308      0583 1     receive the string. (See Chapter 2 -- Section on
309      0584 1     passing strings as output parameters for the
310      0585 1     semantics of each string type.)
311      0586 1     outlen Is the number of characters returned to the
312      0587 1     caller.
```

```

: 313      0588 1 | IMPLICIT INPUTS:
: 314      0589 1 |   SYS_COMMAND_ISI Set on first call to RMS internal stream
: 315      0590 1 |   identifier.
: 316      0591 1 |
: 317      0592 1 |
: 318      0593 1 |
: 319      0594 1 |
: 320      0595 1 |
: 321      0596 1 |
: 322      0597 1 |
: 323      0598 1 |
: 324      0599 1 |
: 325      0600 1 |
: 326      0601 1 |
: 327      0602 1 |
: 328      0603 1 |
: 329      0604 1 |
: 330      0605 1 |
: 331      0606 1 |
: 332      0607 1 |
: 333      0608 1 |
: 334      0609 1 |
: 335      0610 1 |
: 336      0611 1 |
: 337      0612 1 |
: 338      0613 1 |
: 339      0614 1 |
: 340      0615 1 |
: 341      0616 2 |
: 342      0617 2 |
: 343      0618 2 |
: 344      0619 2 |
: 345      0620 2 |
: 346      0621 2 |
: 347      0622 2 |
: 348      0623 2 |
: 349      0624 2 |
: 350      0625 2 |
: 351      0626 2 |
: 352      0627 2 |
: 353      0628 2 |
: 354      0629 2 |
: 355      0630 2 |
: 356      0631 2 |
: 357      0632 1 |

IMPLICIT OUTPUTS:
   SYS_COMMAND_ISI Set to RMS internal stream identifier
on first call when SYSSCOMMAND is OPENed.

COMPLETION STATUS:
   SSS_NORMAL if success.
   LIB$INPSTRTRU if input string is bigger than the caller's
fixed length string.
   LIB$INVARG if the input descriptor's class is not a recognized
string type.
   RMSS_xyz if any RMS error.

SIDE EFFECTS:
   Opens file SYSSCOMMAND on first call and remembers ISI for
subsequent calls.

-- BEGIN
BUILTIN
NULLPARAMETER;

RETURN DO GET (.GET STRING, ! String to return
(IF NULLPARAMETER (2) THEN 0 ELSE .PROMPT_STRING), ! Optional
prompt
string
(IF NULLPARAMETER (3) THEN 0 ELSE .OUTLEN), ! Optional
number of
chars returned
SYS_COMMAND_ISI, ! internal stream id for SYSSCOMMAND
11, ! length of SYSSCOMMAND string
UPLIT ('SYSSCOMMAND')); ! name to open first time
END; ! End of LIB$GET_COMMAND routine

```

00 44 4E 41 4D 4D 4F 43 24 53 59 53 00044 P.AAB: .ASCII \SYSSCOMMAND\<0>

			.ENTRY LIB\$GET_COMMAND, Save nothing	: 0531
		EF AF 0000 00000	PUSHAB P.AAB	: 0630
		0B DD 00002	PUSHL #11	: 0621
03	00000000	EF 9F 00007	PUSHAB SYS COMMAND_ISI	
		6C 91 0000D	CMPB (APT, #3)	: 0625

	05	1F 00010	BLSSU	1\$	
	0C	AC D5 00012	TSTL	12(AP)	
	04	12 00015	BNEQ	2\$	
	7E	D4 00017 1\$:	CLRL	-(SP)	
	03	11 00019	BRB	3\$	
02	0C	AC DD 0001B 2\$:	PUSHL	OUTLEN	
	6C	91 0001E 3\$:	CMPB	(AP), #2	0622
	05	1F 00021	BLSSU	4\$	
	08	AC D5 00023	TSTL	8(AP)	
	04	12 00026	BNEQ	5\$	
	7E	D4 00028 4\$:	CLRL	-(SP)	
	03	11 0002A	BRB	6\$	
	08	AC DD 0002C 5\$:	PUSHL	PROMPT_STRING	
0000V CF	04	AC DD 0002F 6\$:	PUSHL	GET_STRING	0621
	06	FB 00032	CALLS	#6,_DO_GET	
	04	00037	RET		0632

; Routine Size: 56 bytes, Routine Base: \_LIB\$CODE + 0050

```
359      0633 1 ROUTINE DO_GET (           ! Input string from SYSSINPUT or SYSSCOMMAND
360      0634 1
361      0635 1   GET_STRING,             ! Adr. of string descriptor
362      0636 1   PROMPT_STRING,        ! Adr. of optional PROMPT_STRING string
363      0637 1
364      0638 1   OUTLEN,              ! Number of chars returned to the caller
365      0639 1   GET_ISI,              ! Adr. of ISI word for this file
366      0640 1   DEVICE_NAME_LEN,     ! Length of device name string
367      0641 1   DEVICE_NAME,         ! Adr. of device name string
368      0642 1
369      0643 1           ) = ! Value returned is RMS completion code
370      0644 1
371      0645 1   ++
372      0646 1   FUNCTIONAL DESCRIPTION:
373      0647 1
374      0648 1   A line from the current controlling input device, DEVICE_NAME,
375      0649 1   is obtained. If an optional PROMPT STRING is given, output
376      0650 1   will appear on the device, DEVICE_NAME, if the device is a
377      0651 1   terminal; otherwise the PROMPT_STRING is ignored. No CRLF is
378      0652 1   appended to the record obtained from RMS. On first call, device
379      0653 1   DEVICE_NAME is opened.
380      0654 1   Thus the user can assign the logical name DEVICE_NAME to any
381      0655 1   file name in order to redirect I/O.
382      0656 1
383      0657 1   CALLING SEQUENCE:
384      0658 1
385      0659 1   ret_status.wlc.v = DO_GET (get_string.wt.dx,
386      0660 1           [prompt_string.rt.dx],
387      0661 1           [outlen.ww.r],
388      0662 1           get_isi.mw.r,
389      0663 1           device_name_len.rl.v,
390      0664 1           device_name.rt.r)
391      0665 1
392      0666 1   INPUT PARAMETERS:
393      0667 1
394      0668 1   prompt_string is the address of a string descriptor specifying
395      0669 1   an optional prompt which is output to the
396      0670 1   controlling input device. Where other conventions
397      0671 1   are not established, it is recommended for
398      0672 1   consistency to make prompts be an English word
399      0673 1   followed by a colon(:), one (1) space, and no
400      0674 1   CRLF.
401      0675 1
402      0676 1
403      0677 1   get_isi      Set on first call to RMS internal stream
404      0678 1           identifier.
405      0679 1
406      0680 1   device_name_len is the length of the device_name string in
407      0681 1           bytes.
408      0682 1
409      0683 1   device_name    is the adr. of the device name to be opened
410      0684 1           the first time.
411      0685 1
412      0686 1   OUTPUT PARAMETERS:
413      0687 1
414      0688 1   get_string    is the address of the string descriptor
415      0689 1           which is to receive the string.
```



```
: 473      0747 2      |+
: 474      0748 2      |+ First call, initialize FAB
: 475      0749 2      |-_
: 476      0750 2      BEGIN
: 477      P 0751 3      $FAB_INIT (FAB = FAB,
: 478      P 0752 3      FAC = GET,           ! file access: GET
: 479      P 0753 3      FNA = .DEVICE_NAME,   ! file name: DEVICE_NAME
: 480      P 0754 3      (SYSSINPUT or SYSSCOMMAND)
: 481      0755 3      FNS = .DEVICE_NAME_LEN); ! file name size:
: 482      0756 3      ! 9 or 11 bytes
: 483      0757 3
: 484      0758 3
: 485      0759 3      |+
: 486      0760 3      |+ Open DEVICE_NAME, remember RMS internal stream identifier
: 487      0761 3      RET_STATUS = $OPEN (FAB = FAB);          ! fab addr : FAB
: 488      0762 3
: 489      0763 3      |+
: 490      0764 3      |+ If the OPEN fails, return the RMS status code.
: 491      0765 3      |-_
: 492      0766 3
: 493      0767 3      IF ( NOT .RET_STATUS) THEN RETURN (.RET_STATUS);
: 494      0768 3
: 495      0769 3      $RAB_INIT (FAB = FAB, RAB = RAB);
: 496      0770 3      RET_STATUS = $CONNECT (RAB = RAB); ! connect RAB to the file
: 497      0771 3
: 498      0772 3      |+
: 499      0773 3      |+ Similarly, if the CONNECT fails, return the RMS status code.
: 500      0774 3      |-_
: 501      0775 3
: 502      0776 3      IF ( NOT .RET_STATUS) THEN RETURN (.RET_STATUS);
: 503      0777 3
: 504      0778 3      GET_ISI [0] = .RAB [RAB$W_ISI];        ! remember ISI
: 505      0779 3      END! of first call
: 506      0780 3
: 507      0781 2      ELSE
: 508      0782 2
: 509      0783 2      |+
: 510      0784 2      |+ file already open, just initialize RAB
: 511      0785 2      |+ including internal stream identifier returned from first $OPEN
: 512      0786 2      |-_
: 513      0787 3      BEGIN          ! file already open
: 514      0788 3      $RAB_INIT (FAB = FAB, RAB = RAB);
: 515      0789 3      RAB [RAB$W_ISI] = .GET_ISI [0];
: 516      0790 2      END;          ! file already open
: 517      0791 2
: 518      0792 2      |+
: 519      0793 2      |+ Determine which buffer area to read into, and how long it is.
: 520      0794 2      |+ Use LIB$ANALYZE_SDESC_R2 to get length and address of 1st data byte
: 521      0795 2      |+ of caller's buffer.
: 522      0796 2      |+ If the descriptor is invalid, return status returned by
: 523      0797 2      |+ LIB$ANALYZE_SDESC_R2.
: 524      0798 2      |-_
: 525      0799 2      IF .GET_STRING [DSC$B_CLASS] GTRU DSC$K_CLASS_D
: 526      0800 2      THEN          ! Use generalized extraction
: 527      0801 3      BEGIN
: 528      0802 3      LOCAL RET_STATUS;
: 529      0803 3      RET_STATUS = LIB$ANALYZE_SDESC_R2 ( .GET_STRING ;
```

```
: 530      0804 3           GET_STRING_LEN,  
: 531      0805 3           GET_STRING_ADDR ) ;  
: 532      0806 3  
: 533      0807 3  
: 534      0808 3  
: 535      0809 3  
: 536      0810 2           IF NOT .RET_STATUS THEN RETURN (.RET_STATUS) ;  
: 537      0811 2           END  
: 538      0812 2           ELSE          ! Fetch length and address directly  
: 539      0813 2           BEGIN  
: 540      0814 2           GET_STRING_LEN = .GET_STRING [DSC$W_LENGTH] ;  
: 541      0815 2           GET_STRING_ADDR = .GET_STRING [DSC$A_POINTER] ;  
: 542      0816 2           END;  
: 543      0817 2           + If GET_STRING is dynamic, we arrange to read onto a area of the  
: 544      0818 2           stack since the dynamic string may not be allocated.  
: 545      0819 2           However, if the dynamic string happens to be allocated and if it  
: 546      0820 2           contains more space than we would have used (256 bytes), then  
: 547      0821 2           we should use the space that the caller has provided.  
: 548      0822 2           -  
: 549      0823 2           IF .GET_STRING [DSC$B_CLASS] EQL DSC$K_CLASS_D  
: 550      0824 2           AND .GET_STRING_LEN LSSU K_DYN_STR_MAX  
: 551      0825 2           THEN  
: 552      0826 2           BEGIN  
: 553      0827 3           GET_STRING_LEN = K_DYN_STR_MAX;  
: 554      0828 3           GET_STRING_ADDR = DYNAMIC_STR_BUF;  
: 555      0829 3           END;  
: 556      0830 2  
: 557      0831 2  
: 558      0832 2           + If GET_STRING was varying, the length we want is MAXSTRLEN, not  
: 559      0833 2           CURLEN as returned by LIB$ANALYZE_SDESC_R2.  
: 560      0834 2  
: 561      0835 2           -  
: 562      0836 2           IF .GET_STRING [DSC$B_CLASS] EQL DSC$K_CLASS_VS  
: 563      0837 2           THEN  
: 564      0838 3           BEGIN  
: 565      0839 3           GET_STRING_LEN = .GET_STRING [DSC$W_MAXSTRLEN] ;  
: 566      0840 2           END;  
: 567      0841 2           + Set up RAB buffer address and length fields based on our computations.  
: 568      0842 2  
: 569      0843 2           -  
: 570      0844 2           RAB [RABSL_UBF] = .GET_STRING_ADDR;  
: 571      0845 2           RAB [RABSW_USZ] = .GET_STRING_LEN;  
: 572      0846 2  
: 573      0847 2           +  
: 574      0848 2           Setup prompt buffer address and size in RAB if PROMPT_STRING string  
: 575      0849 2           present. If Prompt string descriptor invalid, return status returned  
: 576      0850 2           by LIB$ANALYZE_SDESC_R2.  
: 577      0851 2           -  
: 578      0852 2  
: 579      0853 3           IF ( NOT NULLPARAMETER (2) )  
: 580      0854 2           THEN  
: 581      0855 3           BEGIN  
: 582      0856 3           IF .PROMPT_STRING [DSC$B_CLASS] GTRU DSC$K_CLASS_D  
: 583      0857 3           THEN          ! Use generalized extraction  
: 584      0858 4           BEGIN  
: 585      0859 4           LOCAL RET_STATUS;  
: 586      0860 4           RET_STATUS = LIB$ANALYZE_SDESC_R2 ( .PROMPT_STRING :  
:
```

```
587      0861 4          PROMPT_STRING_LEN.  
588      0862 4          RAB [RABSL_PBF] );!addr.  
589      0863 4          IF NOT .RET_STATUS THEN RETURN (.RET_STATUS) ;  
590      0864 4          END  
591      0865 4  
592      0866 3          ELSE      ! Fetch length and address directly  
593      0867 4          BEGIN  
594      0868 4          PROMPT_STRING_LEN = .PROMPT_STRING [DSC$W_LENGTH] ;  
595      0869 4          RAB [RABSL_PBF] = .PROMPT_STRING [DSC$A_POINTER] ;  
596      0870 3          END;  
597      0871 3  
598      0872 3          RAB [RAB$B_PSZ] = MINU (255, .PROMPT_STRING_LEN);  
599      0873 3          RAB [RABSV_PMT] = 1;  
600      0874 2          END;  
601      0875 2  
602      0876 2          !+  
603      0877 2          Input the string as a single record  
604      0878 2          Return RMS error status if not RECORD TOO BIG or RECORD STREAM ACTIVE.  
605      0879 2          On record stream active, wait and try again.  
606      0880 2          |-  
607      0881 2          GET_STATUS = $GET (RAB = RAB);  
608      0882 2  
609      0883 2          IF NOT .GET_STATUS  
610      0884 2          THEN  
611      0885 3          BEGIN  
612      0886 3          WHILE (.RAB [RABSL_STS] EQL RMSS_RSA) DO  
613      0887 4          BEGIN  
614      0888 4          $WAIT (RAB = RAB);  
615      0889 4          GET_STATUS = $GET (RAB = RAB);  
616      0890 3          END;  
617      0891 2          END;  
618      0892 2  
619      0893 2          !+  
620      0894 2          Having read the record, we now have to worry about the semantics of  
621      0895 2          GET STRING.  
622      0896 2          If GET STRING has fixed-length semantics, we must blank fill the tail  
623      0897 2          end of the buffer that RMS didn't fill.  
624      0898 2          If GET STRING has dynamic semantics, the input got read into an area  
625      0899 2          on the stack (or in the user's buffer) and needs to be copied  
626      0900 2          to GET STRING.  
627      0901 2          If GET STRING has varying string semantics we need to adjust the  
628      0902 2          CURLEN field to reflect how many bytes it really contains.  
629      0903 2          |-  
630      0904 2          CASE .GET_STRING [DSC$B_CLASS]  
631      0905 2          FROM DSC$R_CLASS_Z TO DSC$K_CLASS_SB OF  
632      0906 2          SET  
633      0907 2          !+  
634      0908 2          Classes with fixed-length string semantics  
635      0909 2          |-  
636      0910 2          [DSC$K_CLASS_Z,           ! Unspecified  
637      0911 2          DSC$K_CLASS_S,           ! Scalar  
638      0912 2          DSC$K_CLASS_A,           ! Array  
639      0913 2          DSC$K_CLASS_SD,          ! Scaled decimal  
640      0914 2          DSC$K_CLASS_NCA,         ! Non-contiguous array  
641      0915 2          DSC$K_CLASS_SB];          ! String with bounds  
642      0916 3          BEGIN      ! fixed length processing  
643      0917 3          !+
```

```
: 644      0918 3      | Because we opened the file in MOVE mode and used the
: 645      0919 3      | caller's string as the UBF, we need only blank pad the
: 646      0920 3      | area beyond the string; the actual data has been
: 647      0921 3      | moved into the front of the user's string by RMS.
: 648      0922 3
: 649      0923 3
: 650      0924 3      | CHSFILL (%C'
: 651      0925 3      .GET_STRING_LEN = .RAB [RAB$W_RSZ];
: 652      0926 3      .GET_STRING_ADDR + .RAB [RAB$W_RSZ];
: 653      0927 2      RET_STATUS = T;           ! To denote copy success
: 654      0928 2      END;                 ! fixed length processing
: 655      0929 2
: 656      0930 2
: 657      0931 2      |+ Classes with varying string semantics
: 658      0932 2
: 659      0933 2      [- DSCSK CLASS_VS]:          ! Varying string
: 660      0934 3      BEGIN             ! varying length processing
: 661      0935 3      (.GET_STRING [DSC$A_POINTER])<0,16> = .RAB [RAB$W_RSZ];
: 662      0936 3      ! CURLEN <- bytes gotten
: 663      0937 3      RET_STATUS = 1;           ! To denote copy success
: 664      0938 2      END;                 ! varying length processing
: 665      0939 2
: 666      0940 2
: 667      0941 2      |+ Classes with dynamic string semantics
: 668      0942 2      Even if we had read into the user's buffer, we still must
: 669      0943 2      ensure that the length is correct.
: 670      0944 2
: 671      0945 2
: 672      0946 2      [- DSCSK CLASS_D]:          ! Dynamic string
: 673      0947 3      BEGIN             ! dynamic length processing
: 674      0948 3      RET_STATUS = LIB$SCOPY_R_DX6 (.RAB [RAB$W_RSZ],
: 675      0949 4      ! (IF .GET_STRING_LEN LSSU K_DYN_STR_MAX
: 676      0950 4      THEN
: 677      0951 4      ! DYNAMIC_STR_BUF
: 678      0952 4
: 679      0953 3
: 680      0954 3      ELSE
: 681      0955 2      ! .GET_STRING)
: 682      0956 2      END;                 ! dynamic length processing
: 683      0957 2      [- INRANGE, OUTRANGE]: ! Should never take this path since
: 684      0958 2      a bad descriptor class code should
: 685      0959 2      have gotten caught the first time
: 686      0960 2      we tried to get GET_STRING's length
: 687      0961 2      and address.
: 688      0962 2      RETURN (LIB$_FATERRLIB);
: 689      0963 2      TES;
: 690      0964 2      |+ If requested, tell the caller the number of bytes actually returned,
: 691      0965 2      | not counting blank padding, if any.
: 692      0966 2
: 693      0967 2
: 694      0968 2
: 695      0969 3      IF ( NOT NULLPARAMETER (3))
: 696      0970 2      THEN OUTLEN [0] = MINU (.RAB [RAB$W_RSZ], .GET_STRING_LEN);
: 697      0971 2
: 698      0972 2      |+ Return proper status code.
: 699      0973 2
: 700      0974 2      |-
```

```

701      0975 2
702      0976 2      IF .GET_STATUS EQLU RMSS_RTB           ! Record too big
703      0977 2      THEN
704      0978 3      RETURN (LIB$_INPSTRTRU)
705      0979 2      ELSE IF NOT .GET_STATUS
706      0980 2      THEN
707      0981 2      RETURN .GET_STATUS
708      0982 2      ELSE IF NOT .RET_STATUS
709      0983 2      THEN
710      0984 2      RETURN .RET_STATUS
711      0985 2      ELSE RETURN SSS_NORMAL;
712      0986 2
713      0987 1      END:                                ! End of routine DO_GET

```

.EXTRN SYSSOPEN, SYSSCONNECT  
.EXTRN SYSSGET, SYSSWAIT

				5B 00000000G	00 OFFC 00000 DO_GET:	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	: 0633
				5A 00000000G	00 9E 00002	MOVAB	SYSSGET, R11	
				5E FE6C	00 9E 00009	MOVAB	LIBSANALYZE_SDESC_R2, R10	
				10	CE 9E 00010	MOVAB	-404(SP), SP	
					BC B5 00015	TSTW	@GET_ISI	0745
					63 12 00018	BNEQ	3S	
0050	8F	00	6E		00 2C 0001A	MOVC5	#0, (SP), #0, #80, \$RMS_PTR	0755
				B0	AD 00021			
			B0	AD 5003	8F B0 00023	MOVW	#20483, \$RMS_PTR	
			C6	AD	02 90 00029	MOVB	#2, \$RMS_PTR+22	
			CF	AD	02 90 0002D	MOVB	#2, \$RMS_PTR+31	
			DC	AD	18 AC 00031	MOVL	DEVICE_NAME, \$RMS_PTR+44	
			E4	AD	14 AC 00036	MOVB	DEVICE_NAME_LEN, \$RMS_PTR+52	
					AD 9F 0003B	PUSHAB	FAB	0761
				00000000G	00 01 FB 0003E	CALLS	#1, SYSSOPEN	
				59	50 D0 00045	MOVL	R0, RET STATUS	
0044	8F	00	24		59 E9 00048	BLBC	RET_STATUS, 1S	0767
			6E		00 2C 0004B	MOVC5	#0, (SP), #0, #68, \$RMS_PTR	0769
			FF6C	CD 4401	8F B0 00055	MOVW	#17409, \$RMS_PTR	
			A8	AD	AD 9E 0005C	MOVAB	FAB, \$RMS_PTR+60	
				FF6C	CD 9F 00061	PUSHAB	RAB	0770
			00000000G	00 01 FB 00065	CALLS	#1, SYSSCONNECT		
			59	50 D0 0006C	MOVL	R0, RET STATUS		
			03		59 E8 0006F	BLBS	RET_STATUS, 2S	0776
			10	BC FF6E	017B 31 00072	BRW	28S	
0044	8F	00	6E		2\$: CD B0 00075	MOVW	RAB+2, @GET_ISI	0778
			FF6C	CD 4401	1C 11 0007B	BRB	4S	0745
			A8	AD	00 2C 0007D	MOVC5	#0, (SP), #0, #68, \$RMS_PTR	0788
			FF6E	CD 8F B0 00087	MOVW	#17409, \$RMS_PTR		
				AD 9E 0008E	MOVAB	FAB, \$RMS_PTR+60		
				10 BC B0 00093	MOVW	@GET_ISI, RAB+2	0789	
			56	04 AC D0 00099	4\$: MOVL	GET STRING, R6	0799	
			02	03 A6 91 0009D	CMPB	3(R6), #2		
			50	0F 1B 000A1	BLEQU	5S		
				56 D0 000A3	MOVL	R6, R0		
				6A 16 000A6	JSB	LIBSANALYZE_SDESC_R2	0803	

	54		52	D0 000A8	MOVL	R2, R4		
	57		51	D0 000AB	MOVL	R1 GET_STRING_LEN		
	08		50	E8 000AE	BLBS	RET_STATUS, 6\$	0807	
	57		66	B0 000B2	5\$: MOVW	(R6), GET_STRING_LEN	0813	
	54	04	A6	D0 000B5	MOVL	4(R6), GET_STRING_ADDR	0814	
	02	03	A6	91 000B9	CMPB	3(R6), #2	0824	
0100	8F		0F	12 000BD	BNEQ	7\$		
			57	B1 000BF	CMPW	GET_STRING_LEN, #256	0825	
		0100	08	1E 000C4	BGEQU	7\$		
	57		8F	B0 000C6	MOVW	#256, GET_STRING_LEN	0828	
	54		6E	9E 000CB	MOVAB	DYNAMIC_STR_BUF, GET_STRING_ADDR	0829	
	0B	03	A6	91 000CE	CMPB	3(R6), #11	0836	
			03	12 000D2	BNEQ	8\$		
90	AD		66	B0 000D4	MOVW	(R6), GET_STRING_LEN	0839	
8C	AD		54	D0 000D7	MOVL	GET_STRING_ADDR, RAB+36	0844	
	02		57	B0 000DB	MOVW	GET_STRING_LEN, RAB+32	0845	
			6C	91 000DF	CMPB	(AP), #2	0853	
			3C	1F 000E2	BLSSU	12\$		
		08	AC	D5 000E4	TSTL	8(AP)		
			37	13 000E7	BEQL	12\$		
	53	08	AC	D0 000E9	MOVL	PROMPT_STRING, R3	0856	
	02	03	A3	91 000ED	CMPB	3(R3), #2		
			0D	1B 000F1	BLEQU	9\$		
	50		53	D0 000F3	MOVL	R3, R0	0860	
			6A	16 000F6	JSB	LIBSANALYZE_SDESC_R2		
9C	AD		52	D0 000F8	MOVL	R2, RAB+48	0862	
	09		50	E8 000FC	BLBS	RET_STATUS, 10\$	0863	
			04	000FF	RET			
	9C	51		63	BO 00100	9\$: MOVW	(R3), PROMPT_STRING_LEN	0868
	AD	04	A3	D0 00103	MOVL	4(R3), RAB+48	0869	
00FF	50		51	3C 00108	MOVZWL	PROMPT_STRING_LEN, R0	0872	
	8F		50	B1 0010B	CMPW	R0 #255		
			04	1B 00110	BLEQU	11\$		
	50		8F	9A 00112	MOVZBL	#255, R0		
A0	AD		50	90 00116	MOVB	R0, RAB+52		
FF73	CD	40	8F	88 0011A	BISB2	#64, RAB+7	0873	
		FF6C	CD	9F 00120	PUSHAB	RAB	0881	
	6B		01	FB 00124	CALLS	#1, SYSS\$GET		
	58		50	D0 00127	MOVL	R0, GET_STATUS		
000182DA	22		58	E8 0012A	BLBS	GET_STATUS, 14\$	0883	
	8F	FF74	CD	D1 0012D	CMPL	RAB+8, #99034	0886	
			17	12 00136	BNEQ	14\$		
			FF6C	CD 9F 00138	PUSHAB	RAB	0888	
00000000G	00		01	FB 0013C	CALLS	#1, SYSS\$WAIT		
		FF6C	CD	9F 00143	PUSHAB	RAB	0889	
	6B		01	FB 00147	CALLS	#1, SYSS\$GET		
	58		50	D0 0014A	MOVL	R0, GET_STATUS		
			DE	11 0014D	BRB	13\$		
0020	0F	00	A6	8F 0014F	CASEB	3(R6), #0, #15	0886	
0020	0045	0028	0028	00154	.WORD	17\$-15\$,-	0904	
0020	0020	0020	0028	0015C		17\$-15\$,-		
0038	0028	0028	0020	00164		20\$-15\$,-		
0028	0020	0020	0020	0016C		16\$-15\$,-		
						17\$-15\$,-		
						16\$-15\$,-		
						16\$-15\$,-		

						16\$-15\$,-	
						16\$-15\$,-	
						17\$-15\$,-	
						17\$-15\$,-	
						18\$-15\$,-	
						16\$-15\$,-	
						16\$-15\$,-	
						16\$-15\$,-	
						17\$-15\$	
					50 00000000G 00 9E 00174 16\$:	MOVAB LIBS_FATERRLIB, R0	0962
					04 0017B	RET	
				51 20 6E 8E AD 3C 0017C 17\$:	MOVZWL RAB+34, R0	0924	
				51 57 3C 00180	MOVZWL GET_STRING_LEN, R1		
				51 50 C2 00183	SUBL2 R0, R1		
				00 2C 00186	MOVC5 #0, (SP), #32, R1, (R0)[GET_STRING_ADDR]	0925	
				6044 0018B			
				05 11 0018D	BRB 19\$	0926	
			04 04 86 B6 8E AD 80 0018F 18\$:	MOVW RAB+34, @4(R6)	0935		
			59 59 01 D0 00194 19\$:	MOVL #1, RET_STATUS	0937		
			22 22 11 00197	BRB 23\$	0904		
			0100 0100 8F 57 B1 00199 20\$:	CMPW GET_STRING_LEN, #256	0949		
			08 08 1E 0019E	BGEQU 21\$			
			52 52 6E 9E 001A0	MOVAB DYNAMIC_STR_BUF, R2			
			51 51 52 E0 001A3	MOVL R2, R1			
			03 03 11 001A6	BRB 22\$			
			51 51 54 D0 001A8 21\$:	MOVL GET_STRING_ADDR, R1	0953		
			52 52 56 D0 001AB 22\$:	MOVL R6, R2	0948		
			50 50 00000000G 8E AD 3C 001AE	MOVZWL RAB+34, R0			
			00 00 16 001B2	JSB LIB\$COPY R DX6			
			59 59 50 D0 001B8	MOVL R0, RET_STATUS			
			03 03 6C 91 001BB 23\$:	CMPB (AP), #3	0969		
			15 15 1F 001BE	BLSSU 25\$			
			OC OC AC D5 001C0	TSTL 12(AP)			
			10 10 13 001C3	BEQL 25\$			
			50 50 8E AD 3C 001C5	MOVZWL RAB+34, R0	0970		
			57 57 B1 001C9	CMPW GET_STRING_LEN, R0			
			03 03 1E 001CC	BGEQU 24\$			
			50 50 57 3C 001CE	MOVZWL GET_STRING_LEN, R0			
			BC BC 50 B0 001D1 24\$:	MOVW R0, @OUTLEN			
			8F 8F 58 D1 001D5 25\$:	CMPL GET_STATUS, #98728	0976		
			08 08 12 001DC	BNEQ 26\$			
			50 50 00000000G 00 9E 001DE	MOVAB LIBS_INPSTRTRU, R0	0978		
			04 04 04 001E5	RET 0979			
			04 04 58 E8 001E6 26\$:	BLBS GET_STATUS, 27\$			
			50 50 58 D0 001E9	MOVL GET_STATUS, R0	0981		
			04 04 04 001EC	RET			
			04 04 59 E8 001ED 27\$:	BLBS RET_STATUS, 29\$	0982		
			50 50 59 D0 001F0 28\$:	MOVL RET_STATUS, R0	0984		
			04 04 04 001F3	RET			
			50 50 01 D0 001F4 29\$:	MOVL #1, R0	0985		
			04 04 001F7	RET 0987			

: Routine Size: 504 bytes, Routine Base: \_LIB\$CODE + 0088

: 714 0988 1 END  
: 715 0989 1

!End of module LIB\$GET\_INPUT

LIB\$GET\_INPUT  
1-015

: 716 0990 0 ELUDOM

L 9  
16-Sep-1984 01:00:46  
14-Sep-1984 12:38:58 VAX-11 Bliss-32 V4.0-742  
[LIBRTL.SRC]LIBGETINP.B32;1

Page 20  
(5)

LIB  
1-0

#### PSECT SUMMARY

Name	Bytes	Attributes
-LIB\$DATA	4 NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON, PIC,ALIGN(2)	
-LIB\$CODE	640 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)	

#### Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
\$_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	87	0	581	00:00.8

#### COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:LIBGETINP/OBJ=OBJ\$:LIBGETINP MSRC\$:LIBGETINP/UPDATE=(ENH\$:LIBGETINP  
)

Size: 616 code + 28 data bytes  
Run Time: 00:11.7  
Elapsed Time: 00:41.5  
Lines/CPU Min: 5089  
Lexemes/CPU-Min: 40128  
Memory Used: 192 pages  
Compilation Complete

0207 AH-BT13A-SE  
VAX/VMS V4.0

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LIBFLUND  
LIS

LIBGETSYI  
LIS

LIBINITIA  
LIS

LIBFIXUFF  
LIS

LIBGETFOR  
LIS

LIBGETINP  
LIS

LIBINISHR  
LIS

LIBGETDVI  
LIS

LIBGETOPC  
LIS

LIBENDMG  
LIS

LIBGETMSG  
LIS

LIBINDEX  
LIS

LIBINSOHI  
LIS

LIBGETJPI  
LIS

LIBGETTAB  
LIS